

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in the application, includes any amendments made to the claims herein, and further includes the status of each claim:

1-56. (CANCELED)

57. (CURRENTLY AMENDED) A method of using a dual head injector, the method comprising:

mounting a first syringe to the injector;

mounting a second syringe to the injector;

coupling a first section of Y-tubing to the first syringe;

coupling a second section of the Y-tubing to the second syringe, wherein the Y-tubing further comprises a

third section, wherein the first, second, and third sections meet at an intersection, and wherein each of the first and second sections feed into the third section;

initiating a ~~programmed-purge-protocol-of-the-injector~~ purging operation while the first and second syringes are mounted to the injector and while the first and second sections of the Y-tubing are coupled to the first and second syringes, respectively, wherein the first syringe comprises contrast media prior to the initiation of the ~~programmed-purge-protocol~~ purging operation, wherein the second syringe comprises saline prior to the initiation of the purging operation, and wherein the ~~programmed-purge-protocol~~ purging operation comprises:

advancing a first plunger drive ram of the injector to move a plunger of the first syringe to a first predetermined stop point where the plunger of the first syringe stops, wherein the advancing of the first plunger drive ram purges air from the first syringe and the first section of Y-tubing and fills the first section of the Y-tubing with contrast media from the first syringe, and wherein the advancing of the first plunger drive ram purges air up to the intersection of the first, second, and third sections of the Y-tubing; and

advancing a second plunger drive ram of the injector to move a plunger of the second syringe to a second predetermined stop point where the plunger of the second syringe stops, wherein the advancing of the second plunger drive ram purges air from the second syringe, the second section of the Y-tubing, the intersection of the first, second, and third sections of the Y-tubing, and the third section of the Y-tubing, wherein the advancing of the first plunger drive ram occurs before the advancing of the second plunger drive ram, and wherein the advancing of the second plunger drive ram comprises filling each of the second and third sections of the Y-tubing with saline from the second syringe; and

initiating a ~~programmed-an~~ injection procedure that includes injecting contrast media into the patient from the first syringe, wherein the ~~programmed-injection~~ procedure occurs:

after the ~~programmed-purge-protocol~~ purging operation is completed;

while the first and second syringes are mounted to the injector; and

while the first and second sections of the Y-tubing are coupled to the first and second syringes,

respectively.

58. (PREVIOUSLY PRESENTED) The method of claim 57, wherein a combination of the advancing of the first plunger drive ram and the advancing of the second plunger drive ram results in a purge of substantially all air from the first and second syringes and the Y-tubing.

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59-67. (CANCELLED)

68. (PREVIOUSLY PRESENTED) The method of claim 57, wherein the second syringe is prefilled with saline.

10 69. (PREVIOUSLY PRESENTED) The method of claim 57, wherein the first syringe is prefilled with contrast media.

70. (CURRENTLY AMENDED) The method of claim 57, further comprising the step of:

filling each of the first and second syringes with fluid after the corresponding mounting step, wherein the ~~programmed-purge-protocol~~purging operation is initiated after an entirety of the filling step has been completed.

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71. (CURRENTLY AMENDED) A method of using a dual head injector, the method comprising:

mounting a first syringe to the injector;

mounting a second syringe to the injector;

coupling a first section of Y-tubing to the first syringe;

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coupling a second section of the Y-tubing to the second syringe, wherein the Y-tubing further comprises a third section, wherein the first, second, and third sections meet at an intersection, and wherein each of the first and second sections feed into the third section such that the third section is downstream of each of the first and second sections;

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initiating a ~~programmed-purge-protocol of the injector~~purging operation while the first and second syringes are mounted to the injector and while the first and second sections of the Y-tubing are coupled to the first and second syringes, respectively, wherein the first syringe comprises contrast media prior to the initiation of the ~~programmed-purge-protocol~~purging operation, wherein the second syringe comprises saline prior to the initiation of the purging operation, and wherein the ~~programmed-purge-protocol~~purging operation comprises:

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advancing a first plunger drive ram of the injector to move a plunger of the first syringe to a first predetermined stop point where the plunger of the first syringe stops, wherein the advancing a first plunger drive ram step comprises purging air up to a first location of the Y-tubing and directing contrast media from the first syringe into the Y-tubing; and

advancing a second plunger drive ram of the injector to move a plunger of the second syringe to a second predetermined stop point where the plunger of the second syringe stops, wherein the advancing a second

plunger drive ram step comprises purging air up to a second location of the Y-tubing and directing saline from the second syringe into the Y-tubing, wherein the second location is downstream of the first location, and wherein the advancing of the first plunger drive ram occurs before the advancing of the second plunger drive ram; and

initiating a ~~programmed~~ an injection procedure that includes injecting contrast media into the patient,
5 wherein the ~~programmed~~ injection procedure occurs:

after the ~~programmed purge protocol~~ purging operation is completed;

while the first and second syringes are mounted to the injector; and

while the first and second sections of the Y-tubing are coupled to the first and second syringes,
respectively.

10 72. (PREVIOUSLY PRESENTED) The method of claim 71, wherein the advancing of the first plunger ram purges air up to the intersection of the first, second, and third sections of the Y-tubing.

73. (PREVIOUSLY PRESENTED) The method of claim 72, wherein the advancing of the second plunger drive ram
15 purges air from the second syringe, the second section of the Y-tubing, the intersection of the first, second, and third sections of the Y-tubing, and the third section of the Y-tubing.

74. (PREVIOUSLY PRESENTED) The method of claim 71, wherein the advancing of the second plunger drive ram
20 purges air from the second syringe, the second section of the Y-tubing, the intersection of the first, second, and third sections of the Y-tubing, and the third section of the Y-tubing.

75. (PREVIOUSLY PRESENTED) The method of claim 71, wherein the advancing of the first plunger drive ram
comprises filling the first section of the Y-tubing with contrast media.

25 76. (PREVIOUSLY PRESENTED) The method of claim 75, wherein the advancing of the second plunger drive ram comprises filling each of the second and third sections of the Y-tubing with saline.

77. (PREVIOUSLY PRESENTED) The method of claim 71, wherein the advancing of the second plunger drive ram
comprises filling each of the second and third sections of the Y-tubing with saline.

30 78. (PREVIOUSLY PRESENTED) The method of claim 71, wherein the first syringe is prefilled with contrast media.

79. (PREVIOUSLY PRESENTED) The method of claim 71, wherein the second syringe is prefilled with saline.

80. (PREVIOUSLY PRESENTED) The method of claim 71, further comprising the step of:

filling each of the first and second syringes with fluid after the corresponding mounting step, wherein the
| ~~programmed purge protocol~~ purging operation is initiated after an entirety of the filling step has been completed.